



September 23, 2019

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 19I1337

Re: NPDES Excursion-CN

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 9/23/2019 10:10:00AM for the analyses presented in the following report as Work Order 19I1337.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



WORK ORDER SAMPLE SUMMARY**Date:** *Monday, September 23, 2019*

Client: Arcelor Mittal USA, Inc.
Project: NPDES Excursion-CN
Lab Order: 19I1337

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19I1337-01	002-Composite	002	09/22/2019 00:00	9/23/2019 10:10:00AM

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Analytical Results

Date: Monday, September 23, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	1911337-01
Client Project:	NPDES Excursion-CN	Sampled:	09/22/2019 0:00
Client Sample ID:	002-Composite	Received:	09/23/2019 10:10
Sample Description:	002		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: ABG			
Total Cyanide			Prep Method: NA		Prep Date/Time: 09/23/2019 11:12			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	09/23/2019 13:23

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

i Kansas Dept Health & Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**RL:** Reporting Limit**RPD:** Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 4.5°C
 MICROBAC®

Comments

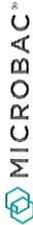
No time

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	No
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	No
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

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Lab Report Address

Client Name: *Aracelor Mittal*

Address:

City, State, Zip:

Contact: *Tami Burk*

Telephone No.:

Send Report via: Mail Fax e-mail (address)

Project:

Location:

Sampled by (PRINT): *Chet Dulin*

Sampler Signature:

PO No.:

Compliance Monitoring? Yes No

Agency/Program

CHAIN OF CUSTODY RECORD

Number: **152259**

Instructions on back

Turnaround Time

Routine (5 to 7 business days)

RUSH* (notify lab)

(needed by)

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 EDD

Send Invoice via: Mail Fax e-mail (address)

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C)

Therm ID: *4.8-0.3*
Holding Time: *=4.5*

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Level 1 Level 2 Level 3 Level 4 EDD

RUSH!

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types**	Additional Notes
001	9/22/19		1				19I1337
002	↓		1				-01
003 011			1				
Steen Ditch Plate 9/23/19							
Steen Ditch matrix							
Steen Ditch samplers							
Steen Ditch HCl							
SP1C (unlabeled)							

1911337 Carey Gadzala
AracelorMittal - Burns Harbor, IN
NPDES Excursion-CN
09/23/2019

Possible Hazard Identification

Hazardous Non-Hazardous Radioactive

Sample Disposition

Dispose as appropriate Return Archive

Comments

Relinquished By (signature): <i>[Signature]</i>	Date/Time: 9/23/19 0850	Received By (signature): <i>[Signature]</i>	Date/Time: 9/23/19 0815
Relinquished By (signature): <i>[Signature]</i>	Date/Time: 9/23/19 1010	Received By (signature): <i>[Signature]</i>	Date/Time:
Relinquished By (signature): <i>[Signature]</i>	Date/Time:	Received By (signature): <i>[Signature]</i>	Date/Time: